September 11, 1995

EDOS_IRD_FPRS_LINK_CORRECTIONS

| IRD | IRD_segment | IRD_text | IRD_clarification | FPRS | L3_type | L3_segment | L3_text | L3_clarification |
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| EDOS-~~4.1.1.1~~ 4.1.1 | FOS | The DIF shall interface with the EOC to transfer real-time return link data, rate buffered data, Operations Management Data, Mission Test Data Sets, and Operations Management Test Data Sets. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |
| | | | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| | | | | EOC-5030 | functional | FOS | The EOC shall provide the capability to receive and process, non-telemetry data, which includes at a minimum the following:a.Messages from the NCCb.Monitor blocks from the DSN, GN, and WOTSc.Status messages from EDOS | |
| | | | | ICC-4020 | functional | FOS | The ICC shall provide the capability to accept CCSDS packets from EDOS containing at a minimum the following data types:a.Spacecraft and instrument housekeeping datab.Instrument engineering data or instrument science data within which instrument engineering data is embeddedc.Instrument memory dump data | |

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| | | | | EOSD0015 | operational | FOS/SDPS | ECS shall use and support the Deep Space Network (DSN), the Ground Network (GN), and the Wallops Orbital Tracking Station (WOTS), via the EDOS/Ecom/Nascom interface, as backup of the SN, to obtain forward and return link data communications. | |
| | | | | EOC-5010 | functional | FOS | The EOC shall receive from EDOS the following telemetry data types in CCSDS packets containing:a.Real-time spacecraft and instrument housekeeping data including instrument and spacecraft housekeepingb. Spacecraft recorder housekeeping datac. SCC memory dump data | |
| | | | | EOC-0040 | functional | FOS | The EOC shall interface with EDOS for coordinating EDOS-provided services required by the EOC. | |
| | | | | ICC-4095 | functional | FOS | The ICC shall provide the capability to receive and process, non-telemetry data, which includes at a minimum the following:a.Monitor blocks from the DSN, GN, and WOTSb.Status messages from EDOS | |
| | | | | ICC-0055 | functional | FOS | The ICC shall interface with EDOS for coordinating EDOS-provided services (e.g., data delivery service messages, status). | |
| | | | | EOSD1605 | interface | FOS/CSMS | ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft. | |

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| | | | | EOSD0020 | operational | FOS/SDPS/CSMS | ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality. | |
| EDOS-~~4.1.1.10~~ A.1.8 | FOS \| CSMS | The DIF shall conform to GOSIP ~~and Internet~~ protocol standards for communications services as specified in Applicable Documents 2~~, 3,4, 5, and 6~~ for the delivery of real-time data. | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | ESN-1340 | functional | CSMS | The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs. | |

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| EDOS-~~4.1.1.11~~ A.1.9 | FOS \| CSMS | The DIF shall conform to GOSIP ~~and Internet~~ protocol standards for communications services as specified in Applicable Documents ~~2, 3,4, 5, and 6~~ to provide guaranteed data delivery for the following data types:a.CODA reportsb.TSS Summary Reportsc.QDS Delivery Recordsd.Service Request Dispositions | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | ESN-1340 | functional | CSMS | The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs. | |

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| EDOS-~~4.1.1.12~~ A.1.10 | FOS | The DIF shall provide the capability to receive status data from the EOC as specified in Applicable Document 1, including but not limited to the following:a.Verification of QDSs deliveredb.Verification of TSS Summary Reports delivered | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| EDOS-~~4.1.1.13~~ A.1.11 | FOS | The DIF shall provide the capability to receive Service Requests from the EOC as specified in Applicable Document 1. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOC-8020 | functional | FOS | The EOC shall participate in the scheduling of interface and end-to-end tests with the external elements involved, including the ICCs, the spacecraft simulator(s), the SMC for other EOS elements, and EDOS for MO&DSD data delivery systems. | |
| | | | | ICC-0055 | functional | FOS | The ICC shall interface with EDOS for coordinating EDOS-provided services (e.g., data delivery service messages, status). | |
| | | | | ICC-6010 | functional | FOS | The ICC shall participate in the scheduling of interface and end-to-end tests with the external elements involved including the EOC, the SMC for other EOS elements, and EDOS for MO&DSD data delivery systems. | |
| | | | | EOC-0040 | functional | FOS | The EOC shall interface with EDOS for coordinating EDOS-provided services required by the EOC. | |

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| EDOS-~~4.1.1.14~~ A.1.12 | FOS \| CSMS | The DIF shall conform to GOSIP ~~and Internet~~ protocol standards for communications services as specified in Applicable Documents ~~2, 3, 4, 5, and 6~~ to provide receipt for the following data types:a.status datab.Service Requests | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | ESN-1340 | functional | CSMS | The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs. | |
| EDOS-~~4.1.1.2~~ 4.1.2 | FOS | The DIF shall interface with the EOC to receive real-time forward link data, Operations Management Data, Mission Test Data Sets, and Operations Management Test Data Sets. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |
| | | | | EOC-0040 | functional | FOS | The EOC shall interface with EDOS for coordinating EDOS-provided services required by the EOC. | |

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| | | | | EOSD0015 | operational | FOS/SDPS | ECS shall use and support the Deep Space Network (DSN), the Ground Network (GN), and the Wallops Orbital Tracking Station (WOTS), via the EDOS/Ecom/Nascom interface, as backup of the SN, to obtain forward and return link data communications. | |
| | | | | ICC-0055 | functional | FOS | The ICC shall interface with EDOS for coordinating EDOS-provided services (e.g., data delivery service messages, status). | |
| | | | | EOC-4005 | functional | FOS | The EOC shall be capable of transmitting commands to the EOS spacecraft via EDOS using the:a.SNb.GN, DSN, WOTS (for contingency or emergency operations) | |
| | | | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| EDOS-~~4.1.1.3~~ A.1.1 | FOS | The DIF shall provide the capability to transfer return link real-time Path Service EDOS Data Units (EDUs) to the EOC.[EDOS generates EDUs by concatenating an EDOS service header (ESH) with each applicable return link path service data unit (SDU)]. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |
| | | | | EOSD1605 | interface | FOS/CSMS | ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft. | |

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| | | | | ICC-4020 | functional | FOS | The ICC shall provide the capability to accept CCSDS packets from EDOS containing at a minimum the following data types:a.Spacecraft and instrument housekeeping datab.Instrument engineering data or instrument science data within which instrument engineering data is embeddedc.Instrument memory dump data | |
| | | | | EOC-5010 | functional | FOS | The EOC shall receive from EDOS the following telemetry data types in CCSDS packets containing:a.Real-time spacecraft and instrument housekeeping data including instrument and spacecraft housekeepingb. Spacecraft recorder housekeeping datac. SCC memory dump data | |
| | | | | EOSD0015 | operational | FOS/SDPS | ECS shall use and support the Deep Space Network (DSN), the Ground Network (GN), and the Wallops Orbital Tracking Station (WOTS), via the EDOS/Ecom/Nascom interface, as backup of the SN, to obtain forward and return link data communications. | |
| EDOS-4.1.1.4 A.1.2 | FOS | The DIF shall provide the capability to transfer Command Link Control Word EDUs to the EOC. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |
| | | | | EOC-4130 | functional | FOS | The EOC shall provide the capability to receive and evaluate command transmission status information from EDOS. | |

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| | | | | EOSD0015 | operational | FOS/SDPS | ECS shall use and support the Deep Space Network (DSN), the Ground Network (GN), and the Wallops Orbital Tracking Station (WOTS), via the EDOS/Ecom/Nascom interface, as backup of the SN, to obtain forward and return link data communications. | |
| EDOS-~~4.1.1.5~~ A.1.3 | FOS | The DIF shall provide the capability to receive forward link real-time CLTUs from the EOC. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |
| | | | | EOSD0015 | operational | FOS/SDPS | ECS shall use and support the Deep Space Network (DSN), the Ground Network (GN), and the Wallops Orbital Tracking Station (WOTS), via the EDOS/Ecom/Nascom interface, as backup of the SN, to obtain forward and return link data communications. | |
| | | | | EOC-4005 | functional | FOS | The EOC shall be capable of transmitting commands to the EOS spacecraft via EDOS using the:a.SNb.GN, DSN, WOTS (for contingency or emergency operations) | |
| | | | | EOC-4130 | functional | FOS | The EOC shall provide the capability to receive and evaluate command transmission status information from EDOS. | |
| EDOS-~~4.1.1.6~~ A.1.4 | FOS | The DIF shall provide the capability to transfer Customer Operations Data Accounting (CODA) reports as specified in Applicable Document 1. | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |

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| | | | | ICC-4095 | functional | FOS | The ICC shall provide the capability to receive and process, non-telemetry data, which includes at a minimum the following:a.Monitor blocks from the DSN, GN, and WOTSb.Status messages from EDOS | |
| | | | | EOC-5030 | functional | FOS | The EOC shall provide the capability to receive and process, non-telemetry data, which includes at a minimum the following:a.Messages from the NCCb.Monitor blocks from the DSN, GN, and WOTSc.Status messages from EDOS | |
| EDOS-~~4.1.1.7~~ A.1.5 | FOS | The DIF shall provide the capability to transfer TDRSS Service Session (TSS) Summary Reports as specified in Applicable Document 1 to the EOC following the completion of each TSS. | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| | | | | ICC-4095 | functional | FOS | The ICC shall provide the capability to receive and process, non-telemetry data, which includes at a minimum the following:a.Monitor blocks from the DSN, GN, and WOTSb.Status messages from EDOS | |
| | | | | EOC-5030 | functional | FOS | The EOC shall provide the capability to receive and process, non-telemetry data, which includes at a minimum the following:a.Messages from the NCCb.Monitor blocks from the DSN, GN, and WOTSc.Status messages from EDOS | |

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| EDOS-~~4.1.1.8~~ A.1.6 | FOS | The DIF shall provide the capability to transfer QDS Delivery Records as specified in Applicable Document 1 to the EOC following the delivery of each QDS. | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| | | | | ICC-4095 | functional | FOS | The ICC shall provide the capability to receive and process, non-telemetry data, which includes at a minimum the following:a.Monitor blocks from the DSN, GN, and WOTSb.Status messages from EDOS | |
| | | | | EOC-5030 | functional | FOS | The EOC shall provide the capability to receive and process, non-telemetry data, which includes at a minimum the following:a.Messages from the NCCb.Monitor blocks from the DSN, GN, and WOTSc.Status messages from EDOS | |
| EDOS-~~4.1.1.9~~ A.1.7 | FOS | The DIF shall provide the capability to transfer Service Request Dispositions to the EOC, as specified in Applicable Document 1. | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| | | | | EOC-8020 | functional | FOS | The EOC shall participate in the scheduling of interface and end-to-end tests with the external elements involved, including the ICCs, the spacecraft simulator(s), the SMC for other EOS elements, and EDOS for MO&DSD data delivery systems. | |

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| | | | | ICC-6010 | functional | FOS | The ICC shall participate in the scheduling of interface and end-to-end tests with the external elements involved including the EOC, the SMC for other EOS elements, and EDOS for MO&DSD data delivery systems. | |
| | | | | ICC-4095 | functional | FOS | The ICC shall provide the capability to receive and process, non-telemetry data, which includes at a minimum the following:a.Monitor blocks from the DSN, GN, and WOTSb.Status messages from EDOS | |
| | | | | ICC-0055 | functional | FOS | The ICC shall interface with EDOS for coordinating EDOS-provided services (e.g., data delivery service messages, status). | |
| | | | | EOC-5030 | functional | FOS | The EOC shall provide the capability to receive and process, non-telemetry data, which includes at a minimum the following:a.Messages from the NCCb.Monitor blocks from the DSN, GN, and WOTSc.Status messages from EDOS | |
| | | | | EOC-4005 | functional | FOS | The EOC shall be capable of transmitting commands to the EOS spacecraft via EDOS using the:a.SNb.GN, DSN, WOTS (for contingency or emergency operations) | |

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| EDOS-~~4.1.2.1~~ 4.1.3 | SDPS | The DIF shall interface with the Langley Research Center (LaRC) DAAC to transfer rate buffered data, Operations Management Data, Mission Test Data Sets, and Operations Management Test Data Sets. | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| | | | | ~~SDPS0115~~ | | ~~SDPS~~ | ~~The SDPS shall accept notification of the possible future availability of out-of-sequence data by the EDOS and shall schedule processing accordingly.~~ | |

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| EDOS-~~4.1.2.10~~ B.1.8 | FOS \| CSMS | The DIF shall conform to GOSIP and Internet protocol standards as specified in Applicable Documents 2~~, 3, 4, 5, and 6~~ for communications services to provide receipt for the following data types:a.status datab.Service Requests. | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | ESN-1340 | functional | CSMS | The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs. | |
| EDOS-~~4.1.2.2~~ 4.1.4 | SDPS | The DIF shall interface with the Langley Research Center (LaRC) DAAC to receive Operations Management Data, Mission Test Data Sets, and Operations Management Test Data Sets. | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |

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| | | | | ~~DADS2020~~ | ~~functional~~ | ~~SDPS~~ | ~~Each DADS shall have the capability to receive data availability schedules at a minimum, from: a.EDOSb.IPsc.ADCsd.ODCse.Other DADSf.TRMM (SDPF)~~ | |
| | | | | ~~DADS2060~~ | ~~functional~~ | ~~SDPS~~ | ~~Each DADS shall communicate with the EDOS to indicate its readiness to accept data.~~ | |
| | | | | DADS1450 | functional | SDPS | Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product. | |
| | | | | ~~SDPS0110~~ | | ~~SDPS~~ | ~~The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from EDOS, SDPF, and the IPs.~~ | |
| EDOS-~~4.1.2.3~~ B.1.1 | SDPS | The DIF shall provide the capability to transfer PDS Delivery Records as specified in Applicable Document 1 to the LaRC DAAC following the delivery of each PDS. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |

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| EDOS-4.1.2.4 B.1.2 | SDPS | The DIF shall provide the capability to transfer QDS Delivery Records as specified in Applicable Document 1 to the LaRC DAAC following the delivery of each QDS. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| EDOS-4.1.2.5 B.1.3 | SDPS | The DIF shall provide the capability to transfer ADS Delivery Records as specified in Applicable Document 1 to the LaRC DAAC following the delivery of each ADS. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| EDOS-4.1.2.6 B.1.4 | SDPS | The DIF shall provide the capability to transfer Service Request Dispositions to the LaRC DAAC, as specified in Applicable Document 1. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| | | | | SDPS0110 | | SDPS | ~~The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from EDOS, SDPF, and the IPs.~~ | |

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| EDOS-~~4.1.2.7~~ B.1.5 | SDPS \| CSMS | The DIF shall conform to GOSIP ~~and Internet~~ protocol standards as specified in Applicable Documents 2~~, 3, 4, 5, and 6~~ for communications services to provide guaranteed delivery for the following data types: a.PDS delivery records b.QDS delivery records c.ADS delivery records d.Service Request Dispositions | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | ESN-1340 | functional | CSMS | The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs. | |

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| EDOS-~~4.1.2.8~~ B.1.6 | SDPS | The DIF shall provide the capability to receive status data from the LaRC DAAC as specified in Applicable Document 1, including but not limited to the following:a.Verification of QDSs deliveredb.Verification of PDSs deliveredc.Verification of ADSs delivered | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| EDOS-~~4.1.2.9~~ B.1.7 | SDPS | The DIF shall provide the capability to receive Service Requests from the LaRC DAAC as specified in Applicable Document 1. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | ~~SDPS0110~~ | | ~~SDPS~~ | ~~The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from EDOS, SDPF, and the IPs.~~ | |
| | | | | ~~DADS2060~~ | ~~functional~~ | ~~SDPS~~ | ~~Each DADS shall communicate with the EDOS to indicate its readiness to accept data.~~ | |
| | | | | DADS1450 | functional | SDPS | Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product. | |
| EDOS-~~4.1.3.1~~ 4.1.5 | SDPS | The DIF shall interface with the GSFC DAAC to transfer rate buffered data, Operations Management Data, Mission Test Data Sets, and Operations Management Test Data Sets. | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |

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| | | | | ~~SDPS0115~~ | | ~~SDPS~~ | ~~The SDPS shall accept notification of the possible future availability of out-of-sequence data by the EDOS and shall schedule processing accordingly.~~ | |
| EDOS-~~4.1.3.10~~ C.1.8 | SDPS \| CSMS | The DIF shall conform to GOSIP ~~and Internet~~ protocol standards as specified in Applicable Documents 2~~, 3, 4, 5, and 6~~ for communications services to provide receipt for the following data types:a.status datab.Service Requests. | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | ESN-1340 | functional | CSMS | The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs. | |
| EDOS-~~4.1.3.2~~ 4.1.6 | SDPS | The DIF shall interface with the GSFC DAAC to receive Operations Management Data, Mission Test Data Sets, and Operations Management Test Data Sets. | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |

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| | | | | DADS1450 | functional | SDPS | Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product. | |
| | | | | ~~DADS2060~~ | ~~functional~~ | ~~SDPS~~ | ~~Each DADS shall communicate with the EDOS to indicate its readiness to accept data.~~ | |
| | | | | ~~DADS2020~~ | ~~functional~~ | ~~SDPS~~ | ~~Each DADS shall have the capability to receive data availability schedules at a minimum, from: a.EDOSb.IPsc.ADCsd.ODCse.Other DADSf.TRMM (SDPF)~~ | |
| | | | | ~~SDPS0110~~ | | ~~SDPS~~ | ~~The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from EDOS, SDPF, and the IPs.~~ | |
| EDOS-~~4.1.3.3~~ C.1.1 | SDPS | The DIF shall provide the capability to transfer PDS Delivery Records as specified in Applicable Document 1 to the GSFC DAAC following the delivery of each PDS. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |

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| EDOS-~~4.1.3.~~4 C.1.2 | SDPS | The DIF shall provide the capability to transfer QDS Delivery Records as specified in Applicable Document 1 to the GSFC DAAC following the delivery of each QDS. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| EDOS-~~4.1.3.~~5 C.1.3 | SDPS | The DIF shall provide the capability to transfer ADS Delivery Records to the GSFC DAAC as specified in Applicable Document 1 ~~to the GSFC DAAC~~ following the delivery of each ADS. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| EDOS-~~4.1.3.~~6 C.1.4 | SDPS | The DIF shall provide the capability to transfer Service Request Dispositions as specified in Applicable Document 1 to the GSFC DAAC. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| | | | | SDPS01~~10~~ | | SDPS | ~~The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from EDOS, SDPF, and the IPs.~~ | |

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| EDOS-~~4.1.3.7~~ C.1.5 | SDPS \| CSMS | The DIF shall conform to GOSIP ~~and Internet~~ protocol standards as specified in Applicable Documents 2~~, 3, 4, 5, and 6~~ for communications services to provide guaranteed delivery for the following data types:a.PDS delivery recordsb.QDS delivery recordsc.ADS delivery recordsd.Service Request Dispositions | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | ESN-1340 | functional | CSMS | The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs. | |
| EDOS-~~4.1.3.~~8 C.1.6 | SDPS | The DIF shall provide the capability to receive status data from the GSFC DAAC including but not limited to the following:a.Verification of QDSs deliveredb.Verification of PDSs deliveredc.Verification of ADSs delivered | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |

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| EDOS-~~4.1.3.9~~ C.1.7 | SDPS | The DIF shall provide the capability to receive Service Requests from the GSFC DAAC as specified in Applicable Document 1. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | ~~SDPS0110~~ | | ~~SDPS~~ | ~~The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from EDOS, SDPF, and the IPs.~~ | |
| | | | | DADS1450 | functional | SDPS | Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product. | |
| | | | | ~~DADS2060~~ | ~~functional~~ | ~~SDPS~~ | ~~Each DADS shall communicate with the EDOS to indicate its readiness to accept data.~~ | |
| EDOS-~~4.1.7.1~~ 4.1.13 | SDPS | The DIF shall interface with the Eros Data Center (EDC) DAAC to transfer Operations Management Data, Mission Test Data Sets, and Operations Management Test Data Sets. | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| | | | | ~~SDPS0115~~ | | ~~SDPS~~ | ~~The SDPS shall accept notification of the possible future availability of out-of-sequence data by the EDOS and shall schedule processing accordingly.~~ | |

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| EDOS-~~4.1.7.10~~ G.1.7 | SDPS \| CSMS | The DIF shall conform to GOSIP ~~and Internet~~ protocol standards as specified in Applicable Documents 2~~, 3, 4, 5, and 6~~ for communications services to provide receipt for the following data types:a.status datab.Service Requests. | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | ESN-1340 | functional | CSMS | The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs. | |
| EDOS-~~4.1.7.2~~ 4.1.14 | SDPS | The DIF shall interface with the EDC DAAC to receive Operations Management Data, and Operations Management Test Data Sets. | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| | | | | ~~SDPS0110~~ | | ~~SDPS~~ | ~~The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from EDOS, SDPF, and the IPs.~~ | |

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| | | | | ~~DADS2020~~ | ~~functional~~ | ~~SDPS~~ | ~~Each DADS shall have the capability to receive data availability schedules at a minimum, from: a.EDOSb.IPsc.ADCsd.ODCse.Other DADSf.TRMM (SDPF)~~ | |
| | | | | ~~DADS2060~~ | ~~functional~~ | ~~SDPS~~ | ~~Each DADS shall communicate with the EDOS to indicate its readiness to accept data.~~ | |
| | | | | DADS1450 | functional | SDPS | Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product. | |
| EDOS-~~4.1.7.3~~ G.1.1 | SDPS | The DIF shall provide the capability to transfer PDS Delivery Records as specified in Applicable Document 1 to the EDC DAAC following the delivery of each PDS. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| EDOS-~~4.1.7.5~~ G.1.2 | SDPS | The DIF shall provide the capability to transfer ADS Delivery Records as specified in Applicable Document 1 to the EDC DAAC following the delivery of each ADS. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |

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| EDOS-~~4.1.7.6~~ G.1.3 | SDPS | The DIF shall provide the capability to transfer Service Request Dispositions as specified in Applicable Document 1 to the EDC DAAC. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| | | | | ~~SDPS0110~~ | | SDPS | ~~The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from EDOS, SDPF, and the IPs.~~ | |

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| EDOS-~~4.1.7.7~~ G.1.4 | SDPS \| CSMS | The DIF shall conform to GOSIP ~~and Internet~~ protocol standards as specified in Applicable Documents 2~~, 3, 4, 5, and 6~~ for communications services to provide guaranteed delivery for the following data types:a.PDS delivery records~~b.QDS delivery records~~c. b. ADS delivery records~~d~~. c.Service Request Dispositions | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | ESN-1340 | functional | CSMS | The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs. | |
| EDOS-~~4.1.7.~~8 G.1.5 | SDPS | The DIF shall provide the capability to receive status data as specified in Applicable Document 1 from the EDC DAAC including but not limited to the following:a.Verification of PDSs deliveredb.Verification of ADSs ~~delivered~~c.~~Verification of QDSs delivered~~ | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |

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| EDOS-~~4.1.7.9~~ G.1.6 | SDPS | The DIF shall provide the capability to receive Service Requests from the EDC DAAC as specified in Applicable Document 1. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | ~~SDPS0110~~ | | ~~SDPS~~ | ~~The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from EDOS, SDPF, and the IPs.~~ | |
| | | | | DADS1450 | functional | SDPS | Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product. | |
| | | | | ~~DADS2060~~ | ~~functional~~ | ~~SDPS~~ | ~~Each DADS shall communicate with the EDOS to indicate its readiness to accept data.~~ | |
| EDOS-~~4.1.8.1~~ 4.1.15 | CSMS | The DIF shall interface with the SMC to transfer rate ~~buffered data~~, Operations Management Data, and Operations Management Test Data Sets. | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| EDOS-~~4.1.8.10~~ H.1.9 | CSMS | The DIF shall provide the capability to receive Service Requests from the SMC as specified in Applicable Document 1. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | ~~EOSD1600~~ | ~~interface~~ | ~~FOS/CSMS~~ | ~~The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS.~~ | |

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| | | | | ~~SMC-1340~~ | ~~functional~~ | ~~CSMS~~ | ~~The SMC shall generate scheduling directives for system level, site-to-site, and element-to-element integration, testing, and simulation activities.~~ | |
| | | | | ~~SMC-1350~~ | ~~functional~~ | ~~CSMS~~ | ~~The SMC shall generate scheduling directives for system level, site-to-site, and element-to-element maintenance activities.~~ | |
| EDOS-~~4.1.8.11~~ H.1.10 | CSMS | The DIF shall conform to GOSIP ~~and Internet~~ protocol standards as specified in Applicable Documents 2~~, 3, 4, 5, and 6~~ for communications services to provide receipt of Service Requests. | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | ESN-1340 | functional | CSMS | The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs. | |

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| EDOS-~~4.1.8.2~~ H.1.1 | CSMS | The DIF shall provide the capability to transfer PDS Delivery Records as specified in Applicable Document 1 to the SMC following the delivery of a PDS to any EGS element. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| | | | | SMC-1330 | functional | CSMS | The SMC shall support and maintain the information for end-to-end data ingest, processing, reprocessing, archive, and data distribution for each product, including, at a minimum:a.Product informationb.Product generation informationc.Product delivery information | |
| EDOS-~~4.1.8.3~~ H.1.2 | CSMS | The DIF shall provide the capability to transfer QDS Delivery Records as specified in Applicable Document 1 to the SMC following the delivery of a QDS to any EGS element. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| | | | | SMC-1330 | functional | CSMS | The SMC shall support and maintain the information for end-to-end data ingest, processing, reprocessing, archive, and data distribution for each product, including, at a minimum:a.Product informationb.Product generation informationc.Product delivery information | |

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| EDOS-4.1.8.4 H.1.3 | CSMS | The DIF shall provide the capability to transfer ADS Delivery Records as specified in Applicable Document 1 to the SMC following the delivery of an ADS to any EGS element. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| | | | | SMC-1330 | functional | CSMS | The SMC shall support and maintain the information for end-to-end data ingest, processing, reprocessing, archive, and data distribution for each product, including, at a minimum:a.Product informationb.Product generation informationc.Product delivery information | |
| EDOS-4.1.8.5 H.1.4 | CSMS | The DIF shall provide the capability to transfer Service Request Dispositions as specified in Applicable Document 1 to the SMC. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| | | | | SMC-1340 | functional | CSMS | The SMC shall generate scheduling directives for system level, site-to-site, and element-to-element integration, testing, and simulation activities. | |
| | | | | SMC-1350 | functional | CSMS | The SMC shall generate scheduling directives for system level, site-to-site, and element-to-element maintenance activities. | |

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| EDOS-~~4.1.8.6~~ H.1.5 | CSMS | The DIF shall provide the capability to transfer EDOS Activity Plans (EAPs) as specified in Applicable Document 1 to the SMC. | Applicable Documents:1.GSFC/MO&DSD, 560-EDOS 0230.0001, EDOS Data Format Requirements Document, December 18, 1992 | ~~EOSD1600~~ | ~~interface~~ | ~~FOS/CSMS~~ | ~~The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS.~~ | |
| | | | | ~~DADS2020~~ | ~~functional~~ | ~~SDPS~~ | ~~Each DADS shall have the capability to receive data availability schedules at a minimum, from: a.EDOSb.IPsc.ADCsd.ODCse.Other DADSf.TRMM (SDPF)~~ | |
| | | | | ~~SMC-1340~~ | ~~functional~~ | ~~CSMS~~ | ~~The SMC shall generate scheduling directives for system level, site-to-site, and element-to-element integration, testing, and simulation activities.~~ | |
| | | | | ~~SMC-1350~~ | ~~functional~~ | ~~CSMS~~ | ~~The SMC shall generate scheduling directives for system level, site-to-site, and element-to-element maintenance activities.~~ | |
| EDOS-~~4.1.8.7~~ H.1.6 | CSMS | The DIF shall provide the capability to transfer EDOS Operations Timelines (EOTs) as specified in Applicable Document 1 to the SMC. | | ~~EOSD1600~~ | ~~interface~~ | ~~FOS/CSMS~~ | ~~The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS.~~ | |
| | | | | ~~DADS2020~~ | ~~functional~~ | ~~SDPS~~ | ~~Each DADS shall have the capability to receive data availability schedules at a minimum, from: a.EDOSb.IPsc.ADCsd.ODCse.Other DADSf.TRMM (SDPF)~~ | |
| | | | | ~~SMC-1350~~ | ~~functional~~ | ~~CSMS~~ | ~~The SMC shall generate scheduling directives for system level, site-to-site, and element-to-element maintenance activities.~~ | |

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| | | | | SDPS0115 | | SDPS | The SDPS shall accept notification of the possible future availability of out-of-sequence data by the EDOS and shall schedule processing accordingly. | |
| | | | | SMC-1340 | functional | CSMS | The SMC shall generate scheduling directives for system level, site-to-site, and element-to-element integration, testing, and simulation activities. | |
| EDOS-4.1.8.8 H.1.7 | CSMS | The DIF shall provide the capability to transfer EOT Change Notifications to the SMC. | | EOSD1600 | interface | FOS/CSMS | The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS. | |
| | | | | SDPS0115 | | SDPS | The SDPS shall accept notification of the possible future availability of out-of-sequence data by the EDOS and shall schedule processing accordingly. | |
| | | | | SMC-1350 | functional | CSMS | The SMC shall generate scheduling directives for system level, site-to-site, and element-to-element maintenance activities. | |
| | | | | SMC-1340 | functional | CSMS | The SMC shall generate scheduling directives for system level, site-to-site, and element-to-element integration, testing, and simulation activities. | |
| | | | | DADS2020 | functional | SDPS | Each DADS shall have the capability to receive data availability schedules at a minimum, from: a.EDOSb.IPsc.ADCsd.ODCse.Other DADSf.TRMM (SDPF) | |

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| EDOS-~~4.1.8.9~~ H.1.8 | CSMS | The DIF shall conform to GOSIP ~~and Internet~~ protocol standards as specified in Applicable Documents 2~~, 3, 4, 5, and 6~~ for communications services to provide guaranteed delivery for the following data types:a.PDS delivery recordsb.QDS delivery recordsc.ADS delivery recordsd.Service Request Dispositionse.EAPsf.EOTsg.EOT Change Notifications | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | ESN-1340 | functional | CSMS | The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs. | |

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| ~~EDOS-4.2~~ | ~~SDPS \| CSMS~~ | ~~Performance requirements specifying the rates for transfer and receipt of Mission Data for the EDOS DIF to each EGS element can be found in the EDOS/Ecom Traffic Model, Reference Document 10.~~ | ~~Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980~~ | ~~DADS2780~~ | ~~performance~~ | ~~SDPS~~ | ~~Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS.~~ | |
| EDOS-~~4.2.1.1~~ A.2.1 | FOS \| CSMS | The DIF-EOC interface shall provide the capability to support the transfer of real-time return link EDUs to the EOC at a rate of up to 1.1 Mbps. | | EOC-5230 | functional | FOS | The EOC shall be able to receive and record spacecraft recorder data at rates up to 1.544 Mbps. | |

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| EDOS-A.2.2 | FOS | The DIF-EOC interface shall provide the capability to support the transfer of Operations Management data to the EOC at a rate of up to 50 kbps. | | none | | | | |
| A.2.3 | FOS | The DIF-EOC interface shall provide the capability to support the receipt of forward link real-time CLTUs from the EOC at a rate of 35 kbps for a single channel. | | EOC-4200 | | | | |
| EDOS-A.2.4 | FOS | The DIF shall provide the capability to ijnitiate the transfer of a TSS Summary Report to the EOC within 90 seconds of completion of the TSS. | | | | | | |
| EDOS-A.2.5 | FOS | The DIF shall provide the capability to initiate transfer of a QDS delivery record to the EOC within 120 seconds of delivery of the QDS. | | | | | | |
| EDOS-~~4.2.2.1~~ B.2.1 | SDPS \| CSMS | The DIF-LaRC DAAC interface shall provide the capability to support the transfer of Operations Management data to the LaRC DAAC at a rate of up to 50 Kbps. | | DADS2780 | performance | SDPS | Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS. | |
| EDOS-B.2.2 | SDPS | The DIF shall provide the capability to initiate transfer of a PDS Delivery Record to the LaRC DAAC within 120 seconds of delivery of the PDS. | | | | | | |
| EDOS-B.2.3 | SDPS | The DIF shall provide the capability to initiate transfer of a QDS Delivery Record to the LaRC DAAC within 120 seconds of delivery of the QDS. | | none | | | | |

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| EDOS-B.2.4 | SDPS | The DIF shall provide the capability to initiate transfer of a ADS Delivery Record to the LaRC DAAC within 120 seconds of delivery of the ADS. | | | | | | |
| EDOS-~~4.2.3.1~~ C.2.1 | SDPS \| CSMS | The DIF-GSFC DAAC interface shall provide the capability to support the transfer of Operations Management data to the GSFC DAAC at a rate of up to 50 Kbps. | | DADS2780 | performance | SDPS | Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS. | |
| EDOS-C.2.2 | SDPS | The DIF shall provide the capability to initiate transfer of a PDS Delivery Record to the GSFC DAAC within 120 seconds of delivery of the PDS. | | | | | | |
| EDOS-C.2.3 | SDPS | The DIF shall provide the capability to initiate transfer of a QDS Delivery Record to the GSFC DAAC within 120 seconds of delivery of the QDS. | | none | | | | |
| EDOS-C.2.4 | SDPS | The DIF shall provide the capability to initiate transfer of a ADS Delivery Record to the GSFC DAAC within 120 seconds of delivery of the ADS. | | | | | | |
| EDOS-~~4.2.7.1~~ G.2.1 | SDPS \| CSMS | The DIF-EDC DAAC interface shall provide the capability to support the transfer of Operations Management data to the EDC DAAC at a rate of up to 50 Kbps. | | DADS2780 | performance | SDPS | Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS. | |
| EDOS-G.2.2 | SDPS | The DIF shall provide the capability to initiate transfer of a PDS Delivery Record to the EDC DAAC within 120 seconds of delivery of the PDS. | | | | | | |

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| EDOS-G.2.3 | SDPS | The DIF shall provide the capability to initiate transfer of a ADS Delivery Record to the EDC DAAC within 120 seconds of delivery of the ADS. | | | | | | |
| EDOS-H.2.1 | CSMS | The DIF-SMC interface shall provide the capability to support the transfer of Operations Management data to the SMC at a rate of up to 50 kbps. | | | | | | |
| EDOS-H.2.2 | CSMS | The DIF shall provide the capability to initiate transfer of a PDS Delivery Record to the SMC within 120 seconds of delivery of the PDS. | | | | | | |
| EDOS-H.2.3 | CSMS | The DIF shall provide the capability to initiate transfer of a QDS Delivery Record to the SMC within 120 seconds of delivery of the QDS. | | none | | | | |
| EDOS-H.2.4 | CSMS | The DIF shall provide the capability to initiate transfer of an ADS Delivery Record to the SMC within 120 seconds of delivery of the ADS. | | none | | | | |
| EDOS-H.2.5 | CSMS | The DIF shall provide the capability to initiate transfer of an EAP to the SMC within 10 minutes of the initiation of EAP generation. | | | | | | |
| EDOS-H.2.6 | CSMS | The DIF shall provide the capability to initiate transfer of an EOT to the SMC within 10 minutes of the initiation of EOT generation. | | | | | | |
| EDOS-H.2.7 | CSMS | The DIF shall provide the capability to initiate transfer of an EOT Change Notification to the SMC within 30 seconds of receipt of any change to the current EOT. | | | | | | |

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| EDOS-A.3.1 | FOS | The EOC shall provide the capability to initiate transfer of the Verification of QDSs delivered status message to the DIF within 60 minutes following the delivery of all QDSs for each TSS. | | | | | | |
| EDOS-A.3.2 | FOS | The EOC shall provide the capability to initiate transfer of the Verification of TSS Summary Reports delivered status message to the DIF within 10 minutes following the delivery of the TSS summary reports for each TSS. | | | | | | |
| EDOS-B.3.1 | SDPS | The LaRC DAAC shall provide the capability to initiate transfer of the Verification of QDSs delivered status message to the DIF within 60 minutes following the delivery of all QDSs for each TSS. | | | | | | |
| EDOS-B.3.2 | SDPS | The LaRC DAAC shall provide the capability to initiate transfer of the Verification of PDSs delivered status message to the DIF within 8 hours following the delivery of all PDSs for a 24 hour period. | | | | | | |
| EDOS-B.3.3 | SDPS | The LaRC DAAC shall provide the capability to initiate transfer of the Verification of ADSs delivered status message to the DIF within 8 hours following the delivery of all ADSs for a 24 hour period. | | | | | | |
| EDOS-C.3.1 | SDPS | The GSFC DAAC shall provide the capability to initiate transfer of the Verification of QDSs delivered status message to the DIF within 60 minutes following the delivery of all QDSs for each TSS. | | none | | | | |

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| EDOS-C.3.2 | SDPS | The GSFC DAAC shall provide the capability to initiate transfer of the Verification of PDSs delivered status message to the DIF within 8 hours following the delivery of all PDSs for a 24 hour period. | | | | | | |
| EDOS-C.3.3 | SDPS | The GSFC DAAC shall provide the capability to initiate transfer of the Verification of ADSs delivered status message to the DIF within 8 hours following the delivery of all ADSs for a 24 hour period. | | | | | | |
| EDOS-G.3.1 | SDPS | The EDC DAAC shall provide the capability to initiate transfer of the Verification of PDSs delivered status message to the DIF within 8 hours following the delivery of all PDSs for a 24 hour period. | | | | | | |
| EDOS-G.3.2 | SDPS | The EDC DAAC shall provide the capability to initiate transfer of the Verification of ADSs delivered status message to the DIF within 8 hours following the delivery of all ADSs for a 24 hour period. | | | | | | |
| EDOS-~~4.4.1.1~~ 4.2.1 | FOS | The DPF shall interface with the EOC to transfer QDSs and Mission Test Data Sets. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |
| | | | | ICC-4412 | functional | FOS | The ICC shall accept quick-look data sets from EDOS. | |
| | | | | EOSD0020 | operational | FOS/SDPS/CSMS | ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality. | |

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| EDOS-4.4.1.2 A.4.1 | FOS | The DPF shall provide the capability to transfer any QDSs to the EOC. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |
| | | | | ICC-4412 | functional | FOS | The ICC shall accept quick-look data sets from EDOS. | |
| EDOS-4.4.1.3 A.4.2 | FOS \| CSMS | The DPF shall conform to GOSIP and Internet protocol standards for file transfer as specified in Applicable Documents 2,3,4,5, and 6 to provide quaranteed data delivery for QDSs. | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | ESN-1340 | functional | CSMS | The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs. | |

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| EDOS-~~4.4.2.1~~ 4.2.2 | SDPS | The DPF shall interface with the LaRC DAAC to transfer PDSs, QDSs, Archive Data Sets (ADSs), and Mission Test Data Sets. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |
| | | | | DADS1450 | functional | SDPS | Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product. | |
| | | | | DADS0130 | functional | SDPS | Each DADS shall receive from the EDOS and SDPF, at a minimum, the following:a.Production data (L0)b.Quick-look data | |
| | | | | SDPS0020 | | SDPS | The SDPS shall receive EOS science, engineering, ancillary, and quick-look data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs. | Deleted 604 L2 trace. DV |
| | | | | EOSD1605 | interface | FOS/CSMS | ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft. | |
| | | | | EOSD0020 | operational | FOS/SDPS/CSMS | ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality. | |

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| EDOS-4.4.2.2 4.2.7 | SDPS | The DPF shall interface with the LaRC DAAC to receive DEDSs on removable physical media. | | DADS2307 | functional | SDPS | DADS shall fulfill requests for L0 data from EDOS with L0 or L1A data, as available. | |
| EDOS-4.4.2.3 B.4.1 | SDPS | The DPF shall provide the capability to transfer any QDSs to the LaRC DAAC. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |
| | | | | EOSD0020 | operational | FOS/SDPS/CSMS | ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality. | |
| | | | | EOSD1605 | interface | FOS/CSMS | ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft. | |
| | | | | DADS0130 | functional | SDPS | Each DADS shall receive from the EDOS and SDPF, at a minimum, the following:a.Production data (L0)b.Quick-look data | |
| | | | | SDPS0020 | | SDPS | The SDPS shall receive EOS science, engineering, ancillary, and quick-look data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs. | Deleted 604 L2 trace. DV |
| EDOS-4.4.2.4 B.4.2 | SDPS | The DPF shall provide the capability to transfer any PDSs to the LaRC DAAC. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |

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| | | | | DADS0130 | functional | SDPS | Each DADS shall receive from the EDOS and SDPF, at a minimum, the following:a.Production data (L0)b.Quick-look data | |
| | | | | EOSD0020 | operational | FOS/SDPS/CSMS | ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality. | |
| | | | | SDPS0020 | | SDPS | The SDPS shall receive EOS science, engineering, ancillary, and quick-look data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs. | Deleted 604 L2 trace. DV |
| | | | | EOSD1605 | interface | FOS/CSMS | ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft. | |
| EDOS-A.5.1 | FOS | The DPF-EOC interface shall provide the capability to support the transfer of QDSs to the EOC at a rate of up to 22 Mbps. | | | | | | |
| EDOS-B.5.1 | FOS | The DPF-LaRC DAAC interface shall provide the capability to support the transfer of QDSs to the LaRC DAAC at a rate of up to 22 Mbps. | | DADS2780 | | | | |
| EDOS-B.5.2 | FOS | The DPF-LaRC DAAC interface shall provide the capability to support the transfer of PDSs to the LaRC DAAC at a rate of up to 22 Mbps. | | DADS2780 | | | | |

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| EDOS-4.4.2.5 B.4.3 | SDPS | The DPF shall provide the capability to copy PDSs to removable physical media for backup to electronic delivery. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |
| | | | | EOSD0020 | operational | FOS/SDPS/CSMS | ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality. | |
| | | | | SDPS0020 | | SDPS | The SDPS shall receive EOS science, engineering, ancillary, and quick-look data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs. | Deleted 604 L2 trace. DV |
| | | | | DADS0130 | functional | SDPS | Each DADS shall receive from the EDOS and SDPF, at a minimum, the following:a.Production data (L0)b.Quick-look data | |
| | | | | EOSD1605 | interface | FOS/CSMS | ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft. | |
| EDOS-4.4.2.6 B.4.4 | SDPS | The DPF shall provide the capability to transfer ADSs to the LaRC DAAC. | | DADS1450 | functional | SDPS | Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product. | |

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| EDOS-~~4.4.2.7~~ B.4.5 | SDPS | The DPF shall provide the capability to copy ADSs to removable physical media for backup to electronic delivery. | | DADS1450 | functional | SDPS | Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product. | |
| EDOS-~~4.4.2.8~~ B.4.6 | SDPS | The DPF shall provide the capability to receive DEDs from the LaRC DAAC on removable physical media. | | DADS2307 | functional | SDPS | DADS shall fulfill requests for L0 data from EDOS with L0 or L1A data, as available. | |

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| EDOS-4.4.2.9 B.4.7 | SDPS \| CSMS | The DPF shall conform to GOSIP and Internet protocol standards for file transfer as specified in Applicable Documents 2, 3, 4, 5, and 6 to provide guaranteed data delivery for the following data:a.PDSsb.QDSsc.ADSs | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | ESN-1340 | functional | CSMS | The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs. | |
| EDOS-4.4.3.1 4.2.3 | SDPS | The DPF shall interface with the GSFC DAAC to transfer PDSs, QDSs, ADSs, and Mission Test Data Sets. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |

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| | | | | DADS1450 | functional | SDPS | Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product. | |
| | | | | DADS0130 | functional | SDPS | Each DADS shall receive from the EDOS and SDPF, at a minimum, the following:a.Production data (L0)b.Quick-look data | |
| | | | | SDPS0020 | | SDPS | The SDPS shall receive EOS science, engineering, ancillary, and quick-look data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs. | Deleted 604 L2 trace. DV |
| | | | | EOSD1605 | interface | FOS/CSMS | ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft. | |
| | | | | EOSD0020 | operational | FOS/SDPS/CSMS | ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality. | |
| EDOS-4.4.~~3~~.2 4.2.8 | SDPS | The DPF shall interface with the GSFC DAAC to receive DEDSs on removable physical media. | | DADS2307 | functional | SDPS | DADS shall fulfill requests for L0 data from EDOS with L0 or L1A data, as available. | |

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| EDOS-~~4.4.3.3~~ C.4.1 | SDPS | The DPF shall provide the capability to transfer ~~any~~ QDS<u>s</u> to the GSFC DAAC. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |
| | | | | EOSD0020 | operational | FOS/SDPS/CSMS | ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality. | |
| | | | | EOSD1605 | interface | FOS/CSMS | ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft. | |
| | | | | SDPS0020 | | SDPS | The SDPS shall receive EOS science, engineering, ancillary, and quick-look data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs. | Deleted 604 L2 trace. DV |
| | | | | DADS0130 | functional | SDPS | Each DADS shall receive from the EDOS and SDPF, at a minimum, the following:a.Production data (L0)b.Quick-look data | |
| EDOS-~~4.4.3.4~~ C.4.2 | SDPS | The DPF shall provide the capability to transfer ~~any~~ PDS<u>s</u>to the GSFC DAAC. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |

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| | | | | EOSD0020 | operational | FOS/SDPS/CSMS | ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality. | |
| | | | | SDPS0020 | | SDPS | The SDPS shall receive EOS science, engineering, ancillary, and quick-look data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs. | Deleted 604 L2 trace. DV |
| | | | | DADS0130 | functional | SDPS | Each DADS shall receive from the EDOS and SDPF, at a minimum, the following:a.Production data (L0)b.Quick-look data | |
| | | | | EOSD1605 | interface | FOS/CSMS | ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft. | |
| EDOS-~~4.4.3.5~~ C.4.3 | SDPS | The DPF shall provide the capability to copy PDSs to removable physical media for backup to electronic delivery. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |
| | | | | EOSD0020 | operational | FOS/SDPS/CSMS | ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality. | |
| | | | | DADS0130 | functional | SDPS | Each DADS shall receive from the EDOS and SDPF, at a minimum, the following:a.Production data (L0)b.Quick-look data | |

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| | | | | EOSD1605 | interface | FOS/CSMS | ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft. | |
| EDOS-4.4.3.6 C.4.4 | SDPS | The DPF shall provide the capability to transfer ADSs to the GSFC DAAC. | | DADS1450 | functional | SDPS | Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product. | |
| EDOS-G.5.1 | FOS | The DPF-EDC DAAC interface shall provide the capability to support the transfer of PDSs to the EDC DAAC at a rate of up to 22 Mbps. | | | | | | |
| EDOS-4.4.3.7 C.4.5 | SDPS | The DPF shall provide the capability to copy ADSs to removable physical media for backup to electronic delivery. | | DADS1450 | functional | SDPS | Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product. | |
| EDOS-4.4.3.8 C.4.6 | SDPS | The DPF shall provide the capability to receive DEDSs from the GSFC DAAC on removable physical media. | | DADS2307 | functional | SDPS | DADS shall fulfill requests for L0 data from EDOS with L0 or L1A data, as available. | |

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| EDOS-4.4.~~3~~.9 C.4.7 | SDPS \| CSMS | The DPF shall conform to GOSIP ~~and Internet~~ protocol standards for file transfer as specified in Applicable Documents 2~~, 3, 4, 5, and 6~~ to provide guaranteed data delivery for the following data types:a.PDSsb.QDSsc.ADSs | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | ESN-1340 | functional | CSMS | The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs. | |
| EDOS-4.4.~~6~~.1 4.2.6 | SDPS | The DPF shall interface with the EDC DAAC to transfer PDSs, ~~Q~~DSs, ADSs, and Mission Test Data Sets. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |

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| | | | | DADS1450 | functional | SDPS | Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product. | |
| | | | | DADS0130 | functional | SDPS | Each DADS shall receive from the EDOS and SDPF, at a minimum, the following:a.Production data (L0)b.Quick-look data | |
| | | | | SDPS0020 | | SDPS | The SDPS shall receive EOS science, engineering, ancillary, and quick-look data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs. | Deleted 604 L2 trace. DV |
| | | | | EOSD1605 | interface | FOS/CSMS | ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft. | |
| | | | | EOSD0020 | operational | FOS/SDPS/CSMS | ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality. | |
| EDOS-4.4.6.2 4.2.10 | SDPS | The DPF shall interface with the EDC DAAC to receive DEDSs on removable physical media. | | DADS2307 | functional | SDPS | DADS shall fulfill requests for L0 data from EDOS with L0 or L1A data, as available. | |

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| EDOS-~~4.4.6.~~3 G.4.1 | SDPS | The DPF shall provide the capability to transfer ~~any~~ PDSs to the EDC DAAC. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |
| | | | | DADS0130 | functional | SDPS | Each DADS shall receive from the EDOS and SDPF, at a minimum, the following:a.Production data (L0)b.Quick-look data | |
| | | | | SDPS0020 | | SDPS | The SDPS shall receive EOS science, engineering, ancillary, and quick-look data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs. | Deleted 604 L2 trace. DV |
| | | | | EOSD1605 | interface | FOS/CSMS | ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft. | |
| | | | | EOSD0020 | operational | FOS/SDPS/CSMS | ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality. | |
| EDOS-~~4.4.6.~~5 G.4.2 | SDPS | The DPF shall provide the capability to copy PDSs to removable physical media for backup to electronic delivery. | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |

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| | | | | EOSD1605 | interface | FOS/CSMS | ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft. | |
| | | | | EOSD0020 | operational | FOS/SDPS/CSMS | ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality. | |
| | | | | DADS0130 | functional | SDPS | Each DADS shall receive from the EDOS and SDPF, at a minimum, the following:a.Production data (L0)b.Quick-look data | |
| | | | | SDPS0020 | | SDPS | The SDPS shall receive EOS science, engineering, ancillary, and quick-look data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs. | Deleted 604 L2 trace. DV |
| EDOS-~~4.4.6.~~6 G.4.3 | SDPS | The DPF shall provide the capability to transfer ADSs to the EDC DAAC. | | DADS1450 | functional | SDPS | Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product. | |
| EDOS-~~4.4.6.~~7 G.4.4 | SDPS | The DPF shall provide the capability to copy ADSs to removable physical media for backup to electronic delivery. | | DADS1450 | functional | SDPS | Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product. | |

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| EDOS-4.4.6.8 G.4.5 | SDPS | The DPF shall provide the capability to receive DEDSs from the EDC DAAC on removable physical media. | | DADS2307 | functional | SDPS | DADS shall fulfill requests for L0 data from EDOS with L0 or L1A data, as available. | |
| EDOS-C.5.1 | FOS | The DPF-GSFC DAAC interface shall provide the capability to support the transfer of QDSs to the GSFC DAAC at a rate of 22 Mbps. | | DADS2780 | | | | |
| EDOS-C.5.2 | FOS | The DPF-GSFC DAAC interface shall provide the capability to support the transfer of PDSs to the GSFC DAAC at a rate of 22 Mbps. | | DADS2780 | | | | |

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| EDOS-~~4.4.6.9~~ G.4.6 | SDPS \| CSMS | The DPF shall conform to GOSIP ~~and Internet~~ protocol standards for file transfer as specified in Applicable Documents 2~~, 3, 4, 5, and 6~~ to provide guaranteed data delivery for the following data types:a.PDS~~sb.QDSsc.~~ b. ADSs | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | ESN-1340 | functional | CSMS | The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs. | |

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| EDOS-4.5 | SDPS | CSMS | Performance requirements specifying the rates for transfer of Mission Data from the EDOS DPF to each EGS element can be found in the EDOS/Ecom Traffic Model, Reference Document 10. | Applicable Documents:2.U.S. Dept. of Commerce/National Bureau of Standards FIPS Publications 146-1, GOSIP, 3 April 19913.RFC 791, Internet Protocol: DARPA Internet Program Protocol Specification, September 19814.Internet Control Message Protocol, RFC 792, September 19815.File Transfer Protocol, RFC, 959, October 19856.User Datagram Protocol, RFC 768, August 1980 | DADS2780 | performance | SDPS | Each DADS shall be capable of ingesting data at the maximum output bandwidth of the EDOS. | |
| EDOS-A.1.13 | FOS | The DIF shall provide the capability to transfer return link rate buffered Path Service EDUs to the EOC | | EOSD0010 | operational | FOS | ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality. | |

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| | | | | EOSD1605 | interface | FOS/CSMS | ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft. | |
| | | | | ICC-4020 | functional | FOS | The ICC shall provide the capability to accept CCSDS packets from EDOS containing at a minimum the following data types:a.Spacecraft and instrument housekeeping datab.Instrument engineering data or instrument science data within which instrument engineering data is embeddedc.Instrument memory dump data | |
| | | | | EOC-5010 | functional | FOS | The EOC shall receive from EDOS the following telemetry data types in CCSDS packets containing:a.Real-time spacecraft and instrument housekeeping data including instrument and spacecraft housekeepingb. Spacecraft recorder housekeeping datac. SCC memory dump data | |
| | | | | EOSD0015 | operational | FOS/SDPS | ECS shall use and support the Deep Space Network (DSN), the Ground Network (GN), and the Wallops Orbital Tracking Station (WOTS), via the EDOS/Ecom/Nascom interface, as backup of the SN, to obtain forward and return link data communications. | |